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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=3; day=12; hr=12; min=13; sec=42; ms=319;]

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Application No: 09784810

Version No: 1.0

Input Set:

Output Set:

Started: 2008-03-12 09:50:28.210

Finished: 2008-03-12 09:50:29.729

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 519 ms

Total Warnings: 16

Total Errors: 0

No. of SeqIDs Defined: 29

Actual SeqID Count: 29

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (17)
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W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
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SEQUENCE LISTING

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<140> 09784810

<141> 2001-02-14

<150> 60/182,360

<151> 2000-02-14

<150> 60/191,261

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<160> 29

<170> PatentIn Ver. 2.1

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<211> 1600

<212> DNA

<213> Homo sapiens

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<210> 2
<211> 384
<212> PRT
<213> Homo sapiens

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Val Leu Val Leu Leu Asn Pro Arg Gly Gly Lys Gly Lys Ala Leu Gln
      20             25             30

Leu Phe Arg Ser His Val Gln Pro Leu Leu Ala Glu Ala Glu Ile Ser
      35             40             45

Phe Thr Leu Met Leu Thr Glu Arg Arg Asn His Ala Arg Glu Leu Val
      50             55             60

Arg Ser Glu Glu Leu Gly Arg Trp Asp Ala Leu Val Val Met Ser Gly
      65             70             75             80

Asp Gly Leu Met His Glu Val Val Asn Gly Leu Met Glu Arg Pro Asp
      85             90             95

Trp Glu Thr Ala Ile Gln Lys Pro Leu Cys Ser Leu Pro Ala Gly Ser
      100            105            110

Gly Asn Ala Leu Ala Ala Ser Leu Asn His Tyr Ala Gly Tyr Glu Gln
      115            120            125

Val Thr Asn Glu Asp Leu Leu Thr Asn Cys Thr Leu Leu Leu Cys Arg
      130            135            140

Pro Val Leu Ser Pro Met Asn Leu Leu Ser Leu His Thr Ala Ser Gly
      145            150            155            160

Leu Arg Ser Phe Ser Val Leu Ser Leu Ala Trp Gly Phe Ile Ala Asp
      165            170            175

Val Asp Leu Glu Ser Asp Lys Tyr Arg Arg Leu Gly Glu Met Arg Phe
      180            185            190

Thr Leu Gly Thr Phe Leu Arg Leu Ala Ala Leu Arg Thr Tyr Arg Gly
      195            200            205

Arg Leu Ala Thr Leu Pro Val Gly Arg Val Gly Phe Lys Thr Pro Ala
      210            215            220

Ser Pro Val Val Val Gln Gln Gly Pro Val Asp Ala His Leu Val Pro
      225            230            235            240

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Leu Glu Glu Gln Val Pro Ser His Trp Gln Val Val Pro Asp Glu Asp
245 250 255

Phe Val Leu Val Leu Ala Leu Leu His Ser His Leu Ala Ser Glu Met
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Phe Ala Ala Pro Met Gly Arg Cys Ala Ala Gly Val Met His Leu Phe
275 280 285

Tyr Val Arg Ala Gly Val Ser Arg Ala Met Leu Leu Arg Leu Phe Leu
290 295 300

Ala Met Glu Lys Gly Arg His Met Glu Tyr Glu Cys Pro Tyr Leu Val
305 310 315 320

Tyr Val Pro Val Val Ala Phe Arg Leu Glu Pro Lys Asp Gly Lys Gly
325 330 335

Val Phe Ala Val Asp Gly Glu Leu Met Val Ser Glu Ala Val Gln Gly
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Gln Val His Pro Asn Tyr Phe Trp Met Val Ser Gly Cys Val Glu Pro
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Pro Pro Ser Trp Lys Pro Gln Gln Met Pro Pro Pro Glu Glu Pro Leu
370 375 380

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<211> 1759

<212> DNA

<213> Mus musculus

<400> 3

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<210> 4

<211> 382

<212> PRT

<213> Mus musculus

<400> 4

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Val Leu Val Leu Leu Asn Pro Gln Gly Gly Lys Gly Lys Ala Leu Gln
      20              25              30

```

```

Leu Phe Gln Ser Arg Val Gln Pro Phe Leu Glu Glu Ala Glu Ile Thr
      35              40              45

```

```

Phe Lys Leu Ile Leu Thr Glu Arg Lys Asn His Ala Arg Glu Leu Val
      50              55              60

```

```

Cys Ala Glu Glu Leu Gly His Trp Asp Ala Leu Ala Val Met Ser Gly
      65              70              75              80

```

```

Asp Gly Leu Met His Glu Val Val Asn Gly Leu Met Glu Arg Pro Asp
      85              90              95

```

```

Trp Glu Thr Ala Ile Gln Lys Pro Leu Cys Ser Leu Pro Gly Gly Ser
      100             105             110

```

```

Gly Asn Ala Leu Ala Ala Ser Val Asn His Tyr Ala Gly Tyr Glu Gln
      115             120             125

```

```

Val Thr Asn Glu Asp Leu Leu Ile Asn Cys Thr Leu Leu Leu Cys Arg
      130             135             140

```

```

Arg Arg Leu Ser Pro Met Asn Leu Leu Ser Leu His Thr Ala Ser Gly
      145             150             155             160

```

```

Leu Arg Leu Tyr Ser Val Leu Ser Leu Ser Trp Gly Phe Val Ala Asp
      165             170             175

```

```

Val Asp Leu Glu Ser Glu Lys Tyr Arg Arg Leu Gly Glu Ile Arg Phe
      180             185             190

```

```

Thr Val Gly Thr Phe Phe Arg Leu Ala Ser Leu Arg Ile Tyr Gln Gly
      195             200             205

```

```

Gln Leu Ala Tyr Leu Pro Val Gly Thr Val Ala Ser Lys Arg Pro Ala
      210             215             220

```

Ser Thr Leu Val Gln Lys Gly Pro Val Asp Thr His Leu Val Pro Leu
225 230 235 240

Glu Glu Pro Val Pro Ser His Trp Thr Val Val Pro Glu Gln Asp Phe
245 250 255

Val Leu Val Leu Val Leu Leu His Thr His Leu Ser Ser Glu Leu Phe
260 265 270

Ala Ala Pro Met Gly Arg Cys Glu Ala Gly Val Met His Leu Phe Tyr
275 280 285

Val Arg Ala Gly Val Ser Arg Ala Ala Leu Leu Arg Leu Phe Leu Ala
290 295 300

Met Gln Lys Gly Lys His Met Glu Leu Asp Cys Pro Tyr Leu Val His
305 310 315 320

Val Pro Val Val Ala Phe Arg Leu Glu Pro Arg Ser Gln Arg Gly Val
325 330 335

Phe Ser Val Asp Gly Glu Leu Met Val Cys Glu Ala Val Gln Gly Gln
340 345 350

Val His Pro Asn Tyr Leu Trp Met Val Cys Gly Ser Arg Asp Ala Pro
355 360 365

Ser Gly Arg Asp Ser Arg Arg Gly Pro Pro Pro Glu Glu Pro
370 375 380

<210> 5

<211> 1840

<212> DNA

<213> Homo sapiens

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<210> 6

<211> 471

<212> PRT

<213> Homo sapiens

<400> 6

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Met Glu Lys Pro Tyr Ala Phe Thr Val His Cys Val Lys Arg Ala Arg
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```

```

Arg His Arg Trp Lys Trp Ala Gln Val Thr Phe Trp Cys Pro Glu Glu
          20             25             30

```

```

Gln Leu Cys His Leu Trp Leu Gln Thr Leu Arg Glu Met Leu Glu Lys
          35             40             45

```

```

Leu Thr Ser Arg Pro Lys His Leu Leu Val Phe Ile Asn Pro Phe Gly
          50             55             60

```

```

Gly Lys Gly Gln Gly Lys Arg Ile Tyr Glu Arg Lys Val Ala Pro Leu
          65             70             75             80

```

```

Phe Thr Leu Ala Ser Ile Thr Thr Asp Ile Ile Gly Asn Lys Phe Tyr
          85             90             95

```

```

Val Asn Tyr Val Glu Val Ile Thr Glu His Ala Asn Gln Ala Lys Glu
          100            105            110

```

```

Thr Leu Tyr Glu Ile Asn Ile Asp Lys Tyr Asp Gly Ile Val Cys Val
          115            120            125

```

```

Gly Gly Asp Gly Met Phe Ser Glu Val Leu His Gly Leu Ile Gly Arg
          130            135            140

```

```

Thr Gln Arg Ser Ala Gly Val Asp Gln Asn His Pro Arg Ala Val Leu
          145            150            155            160

```

```

Val Pro Ser Ser Leu Arg Ile Gly Ile Ile Pro Ala Gly Ser Thr Asp
          165            170            175

```

```

Cys Val Cys Tyr Ser Thr Val Gly Thr Ser Asp Ala Glu Thr Ser Ala
          180            185            190

```

```

Leu His Ile Val Val Gly Asp Ser Leu Ala Met Asp Val Ser Ser Val

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Gly Phe Tyr Gly Asp Ile Ile Lys Asp Ser Glu Lys Lys Arg Trp Leu					
225		230		235	240
Gly Leu Ala Arg Tyr Asp Phe Ser Gly Leu Lys Thr Phe Leu Ser His					
	245		250		255
His Cys Tyr Glu Gly Thr Val Ser Phe Leu Pro Ala Gln His Thr Val					
	260		265		270
Gly Ser Pro Arg Asp Arg Lys Pro Cys Arg Ala Gly Cys Phe Val Cys					
	275		280		285
Arg Gln Ser Lys Gln Gln Leu Glu Glu Glu Gln Lys Lys Ala Leu Tyr					
	290		295		300
Gly Leu Glu Ala Ala Glu Asp Val Glu Glu Trp Gln Val Val Cys Gly					
305		310		315	320
Lys Phe Leu Ala Ile Asn Ala Thr Asn Met Ser Cys Ala Cys Arg Arg					
	325		330		335
Ser Pro Arg Gly Leu Ser Pro Ala Ala His Leu Gly Asp Gly Ser Ser					
	340		345		350
Asp Leu Ile Leu Ile Arg Lys Cys Ser Arg Phe Asn Phe Leu Arg Phe					
	355		360		365
Leu Ile Arg His Thr Asn Gln Gln Asp Gln Phe Asp Phe Thr Phe Val					
	370		375		380
Glu Val Tyr Arg Val Lys Lys Phe Gln Phe Thr Ser Lys His Met Glu					
385		390		395	400
Asp Glu Asp Ser Asp Leu Lys Glu Gly Gly Lys Lys Arg Phe Gly His					
	405		410		415
Ile Cys Ser Ser His Pro Ser Cys Cys Cys Thr Val Ser Asn Ser Ser					
	420		425		430
Trp Asn Cys Asp Gly Glu Val Leu His Ser Pro Ala Ile Glu Val Arg					
	435		440		445
Val His Cys Gln Leu Val Arg Leu Phe Ala Arg Gly Ile Glu Glu Asn					
	450		455		460
Pro Lys Pro Asp Ser His Ser					